

ABSTRACT OF THE DISCLOSURE

Optical scanning device for the production of a 2D computer image of a liquid or humid biological sample observed by transparency, wherein an even thickness of the liquid biological sample is disposed in a tank optically enclosed between an illumination assembly and an optical sensing assembly, the optical sensing assembly having a moving part able to move in a plane parallel to the sample as to scan an area of the sample of sensibly equal thickness, the illumination assembly having a luminous source sensibly homogeneous at least in the scanned area and including towards the sample, an optical grid filter with a surface parallel to the plane and transmitting only light rays sensibly perpendicular to its surface. The sample can be observed by reflection. The tank is open and joint to the optical sensing assembly.